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BEFORE THE

DEPT. OF TRANSPORTATION DOCKETS

DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C.

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U.S. - CHINA AIR SERVICES

Docket OST-99- 5539 - 49

SUPPLEMENTAL CONSOLIDATED REPLY OF WAYNE COUNTY, MICHIGAN AND THE DETROIT METROPOLITAN WAYNE COUNTY AIRPORT

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BEFORE THE DEPARTMENT OF TRANSPORTATION WASHINGTON. D.C.

U.S. – CHI-NA AIR SERVICES	Docket OST-99- 5539
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SUPPLEMENTAL CONSOLIDATED REPLY OF WAYNE COUNTY, MICHIGAN AND THE DETROIT METROPOLITAN WAYNE COUNTY AIRPORT

Wayne County and the Detroit Metropolitan Wayne County Airport ("DTW"), "The Wayne County Parties" file this supplemental consolidated reply to the amended application of United Airlines, Inc. ("United") and answers and replies of United, Federal Express, and the City and County of San Francisco ("San Francisco").

I. INTRODUCTION

On April 29, 1999, The Wayne County Parties filed a short "Reply" indicating strong support for the Northwest Airlines, Inc. ("Northwest") application for Detroit-China services. We also indicated an intention to participate fully by filing exhibits and a brief in an anticipated proceeding to show the superiority of the

Northwest/Detroit gateway application over that of United/San Francisco. It now appears that the Department may not conduct such a full proceeding, and we do not want to be precluded from filing some materials we believe are essential for a full consideration of relevant issues. While we understand that the Department is allowing parties to file additional replies due to some recent changes in the United application, to the extent that it may be necessary for acceptance of this document, we hereby move to have this document accepted as late filed and out of the regular order. Had we realized that this process would be as expedited as it now appears to be, we would have made much more detailed and extensive filings at the answer and reply stages previously specified by the Department.

It continues to be our belief that this matter should only be decided after

Direct Exhibits, Rebuttal Exhibits and Briefs by the parties. There are many
controversial issues at stake here, and the proceeding covers two years of
frequencies in one of the most important U.S.-Asia markets. Further, the U.S.China aviation market is growing rapidly, despite the economic problems in so
many Asian countries. It is our strong belief that acceptance of this document will
not, in any way, disrupt the proceedings, will provide the Department with much
needed information relevant to the decisions that must be reached, and will not

Beijing service via Tokyo. Detroit strongly supports the Northwest application, with the view that the two combination service frequencies must be awarded in order to complete the proposed Detroit-China service pattern.

If somehow the Department were to wrongly conclude that Northwest/Detroit should NOT receive its five combination frequencies applied for in 1999, then that application. remains in play against the year 2000 applications. We thus address the United and Northwest applications comparatively later.

III. ANSWER TO FEDERAL EXPRESS APPLICATION

Both Northwest and United have very ably stated the case against awarding numerous frequencies to an applicant concentrating on small package services, which are only a small percentage of an all-cargo market that is not in need of nearly as much expanded services as the U.S.-China passenger market. There would be no rhyme nor reason to an award of Federal Express' complete application for 1999 services, with an end result that of 3 1 available services between the United States and China, 12 would be dedicated to small package/all-cargo service. United would have 14 frequencies, Federal Express would have 12 and Northwest would have only 9. That result would not make any sense.

A. FEDERAL EXPRESS ALREADY PROVIDES DAILY SERVICE

We note in United's Consolidated Answer at page 16 that Federal Express already provides daily express services to Beijing and Shanghai, using flights of other carriers to supplement its own aircraft. It is not at all clear that this daily service would receive <u>any</u> improvements if the application for 8 frequencies in 1999 were approved.

B. FEDERAL EXPRESS WANTS ONLY INTRA-ASIA SERVICES

None of the Federal Express proposed services would be operated to or from the United States. This is all trans-Asia additions, involving Japan and/or Subic Bay. We recognize that 5th Freedom traffic has value, but in comparison with more direct new flights between the United States and China as proposed by Northwest, the Federal Express proposal should NOT receive priority. Both Northwest and United have quoted from the Department's decision in the 1992 U.S. -China All-Cargo Service Case, Docket 48001, where Evergreen was awarded service over Federal Express because the latter proposed intra-Asia services linked to its U.S.-Japan/Korea operations. When Federal Express acquired the U.S.-China all-cargo service route from Evergreen, it indicated a plan "to switch to a nonstop service once U.S.-China demand can support such a service" (Order 95-6-30 at p. 3). Since Federal Express is now claiming rosy projections of U.S. -China cargo

demand, isn't it interesting that its proposal does not include any U.S.-China nonstop services?

We note that Federal Express has full authority today to operate any of its current U.S.-China frequencies nonstop between the two countries. Instead it chooses to operate all intra-Asia, and proposes only more of the same in this proceeding. Northwest has noted that Federal Express derives 62 percent of its U.S.-China revenue from non-U.S. market sources (NW-22).

C. <u>HIGH VALUE EXPRESS SERVICE IS THE FOCUS</u>

Northwest has illustrated at p. 14 of its Consolidated Answer that Federal Express derives 99 percent of its revenue and 98 percent of its volume from the "high value" "on-line express" market. (Citing FX-301, 302 & 303) This "market" is only a tiny portion of the U.S.-China air cargo market — only 4.3 percent. (See NW-25 and DTW-1, using data from FX-2 11 & FX-2 14). There should be no question that an award of multiple frequencies to Federal Express for service to such a small portion of the U.S.-China market in either year would be unsupportable, and contrary to the public interest.

D. SHENZHEN SERVICE DUPLICATES HONG KONG

Both Northwest and United have also noted that the Federal Express proposed service, primarily in year 2000, to Shenzhen would largely duplicate

existing services to nearby Hong Kong. Nine U.S. carriers, including Federal Express, are authorized to provide U.S.-Hong Kong all-cargo service, so it would make little sense to waste 6 valuable U.S.-China frequencies on such a duplicative effort. (See NW-28 & 29) Not one of the top ten industries in Shenzhen produces high value **exports** to the United States of the type that Federal Express covets for transport. (NW-26).

It would seem that a much higher priority over the Federal Express Shenzhen proposal should be filling the need for more air services between the rapidly developing Shanghai auto industry and the world headquarters of the U.S. auto industry in Michigan. The Shanghai auto industry was an \$8 billion business in 1996, the most recent year for which data is available. The linkage between the Shanghai industry and Michigan is growing, as we note in DTW-2. Twelve auto related businesses operating in Shanghai are headquartered in Michigan, including Ford and (General Motors. We expect the cooperation and expansion to continue when the direct air connections are strengthened, as Northwest has proposed. (See also our listing of Michigan businesses operating in Shanghai in DTW-3).

IV. ANSWER TO UNITED/SAN FRANCISCO APPLICATION

It is possible, depending upon how the Department wishes to split combination frequencies and all-cargo frequencies, for United and Northwest to

both receive <u>all</u> requested combination frequencies. For example, if the Department were to award 5 frequencies in 1999 for combination services (Northwest is the only applicant) and 3 for cargo, there would be 7 all-cargo frequencies and 28 combination carrier frequencies. This would result in a ratio of 1 to 4, which is very close to the current ratio of such services in Trans-Pacific markets (DTW-4). It is, however, more than 3 times as high as the Trans-Atlantic ratio, where all-cargo only represents about 6 percent of all services.

We would advocate the Department choosing to split the 1999 frequencies by awarding 5 to combination service and 3 to all-cargo. If, however, the Department chooses to award more than 3 all-cargo frequencies in 1999, OR any all-cargo frequencies in 2000, then the United and Northwest applications become mutually exclusive, at least to the extent of the total number of all-cargo frequencies exceeding 3 that the Department determines to award, either to Federal Express or to Northwest. Thus, we have taken some time and space to compare the relative merits of the United/San Francisco proposal and the Northwest/Detroit proposal. We will show that the net benefits to San Francisco, Chicago and New York of the the United proposal are minimal, while the benefits to Detroit of the Northwest proposal are extensive. The State and City of New York will gain significant benefits from the Northwest proposal, both in single flight number service and

elapsed times. Even the Washington, D.C. area will receive better elapsed time service to China on Northwest than on the single flight number United proposal of Washington Dulles-San Francisco-Shanghai. Elapsed time comparisons for Shanghai service decidedly favor Northwest/Detroit for most major U.S.-China markets.

Northwest has been providing nonstop service between Detroit and China for 2 years, and proposes even more such service. United, despite having more frequencies available for U.S.-China service, has never provided it, preferring all its frequencies to be used in Japan-China services. Only now does it propose nonstop service from the United States to China. If all combination service applications were approved, United would operate only 7 of 2 1 frequencies nonstop, while Northwest would operate 8 of 16 nonstop from Detroit.

As a U.S. gateway for China service, Detroit is actually well-positioned to serve most of the population centers in the United States, with the exception of the western states. For the South, the East and the Midwest, Northwest/Detroit provides excellent connections for travel to and from China. The United hub at San Francisco is simply not as large as Northwest/Detroit, and there is a circuity problem with using San Francisco as a gateway to China for much of the Eastern 2/3 of the United States.

A. <u>UNITED'S PROPOSAL IS OF MINIMAL ACTUAL BENEFIT TO</u> CHICAGO, NEW YORK AND SAN FRANCISCO

United has provided confusing information about what it proposes to do in this proceeding. As we now understand its current offerings, it proposes the following for San Francisco:

- 1. Removal of the current San Francisco-Tokyo-Shanghai single flight number and sometimes single plane service.
- 2. Removal of the current San Francisco-Tokyo-Beijing single flight number and sometimes single plane service.
- 3. A new nonstop service between San Francisco and Shanghai.

This new service is one that United could have provided any time from 1994 through the present and on into the future with some of United's existing 14 U. S.-China frequencies. Obviously, United made a judgment that nonstop service between **Shanghai** and San Francisco was NOT as valuable as one stop service via Tokyo. Thus it appears that San Francisco is going from 14 one stop frequencies, including service to Beijing, to 7 nonstops, with service only to Shanghai.

What passes for a gain for San Francisco is something that, based on United's lofty arguments about how important nonstop service is **in** this **market**, United should have been and could have been providing today. In its answer, United certainly seemed to be arguing that the San Francisco-China market was so

strong that it required 2 1 frequencies, including the nonstop service. What it seems to now be saying is that just 7 is about right, providing it is a daily nonstop. This is an interesting transformation, and not necessarily beneficial for San Francisco. Consider this question — "if San Francisco does not care about losing its single flight number sometimes single plane services to Shanghai and Beijing, just exactly what does either Chicago or New York have to be excited about?"

Chicago will receive the following change in service to China -- replacement of the current Chicago-Tokyo-Beijing change of plane service with a single plane service. United makes statements that suggest that this is an upgrade, when, in fact, it does not appear to provide any improvement at all. Today's service is all in 747-400 aircraft, just as the proposed schedule would be. The flight times are identical, with the exception that somehow the new schedule shaves 5 minutes off the Tokyo-Chicago segment, which segment is not part of the "new proposal". The single plane service will have the same lengthy layovers in Narita Airport that today's change of plane service has – 2 hours and 25 minutes in the westerly direction and 2 hours and 50 minutes in the eastbound direction. All layovers at Narita on international-to-international services require that transiting passengers depart the airplane, take carry-on luggage, and clear security at Narita, whether the connection

at Narita involves a single plane or a change of planes. Thus, the "same plane service benefits" do not exist at all.

New York JFK will receive the following change in service to China -replacement of the current New York-Tokyo-Shanghai change of plane service with a single plane service. United also makes statements suggesting that this is an upgrade for New York, but it appears from the evidence provided that it may even be a downgrade. Today's service is all in 747-400 aircraft, so there would not be any additional seats available. The flight times are nearly identical, except that in the westbound direction, the departure time is 15 minutes earlier from JFK, the arrival time in Tokyo is 5 minutes earlier, and the layover is 5 minutes longer before departure for Shanghai. Thus, the total elapsed time is 15 minutes longer than today's service offering by United in the New York-Shanghai market. The layover in Tokyo westbound is 3 hours and 10 minutes, and eastbound, it is 2 hours and 35 minutes. Both layovers scream for an exit from the charm of the single plane, and, as we noted above, Narita requires exit from the plane with carry-on luggage on all international-to-international services for reasons of security and for cleaning of the airplane. Thus, as we review the "benefits" for New York, we face the question of whether the extra 15 minutes one must show up earlier at JFK airport is worth being able to say it is only one airplane going one-stop to Shanghai. When airlines often

rotate aircraft for various reasons, and United has several 747-400s flying through Tokyo, one wonders if there is any guarantee that this will always be "single plane service", for what little that is worth when transiting Narita Airport.

While the "benefits" for Chicago, New York and San Francisco of the United proposal for changing its U.S.-China services can best be described as illusory, there is no question whatsoever that Detroit will receive very positive and substantial benefits from the Northwest proposal. Detroit will have at least daily service to and from both Beijing and Shanghai. In 1999, 5 of the seven Detroit-Beijing flights will operate nonstop from Detroit and two will have an intermediate stop in Tokyo. Also in 1999, 2 of seven Detroit-Shanghai flights will operate nonstop from Detroit, and 5 will have an intermediate stop in Tokyo. This is an increase of 2 weekly nonstops and 3 weekly one-stops between Detroit and Shanghai. That is a clear benefit in 1999. In 2000, the Northwest proposal would add one more weekly nonstop between Detroit and Shanghai and one more weekly one stop from Detroit to Beijing, adding obvious additional benefits for Detroit.

B. ELAPSED TIMES

Northwest has provided some evidence of elapsed time superiority over the United/San Francisco-Shanghai proposal for its proposed services in 39 of the top

50 U.S.-Shanghai markets (See NW-R-l, based on NW-12). We have additional evidence (DTW-5). We have looked at the top 50 markets for U.S.-Shanghai O&D traffic, and we **find** that not only does Northwest/Detroit provide the fastest times for 39 (78 percent of the markets), but those markets account for 8 1 percent of the O&D **traffic**, versus only 19 percent for the 11 markets where San Francisco would provide better elapsed times.

In view of United's late announcement of the transfer of its San Francisco-Tokyo-Shanghai one-stop service from San Francisco to New York JFK, it is interesting that for both JFK and LaGuardia airports, service to Shanghai is considerably quicker via Detroit on Northwest than on United either via Tokyo or via San Francisco. We note that for the other New York State cities — Albany, Binghamton, Buffalo, Elmira/Coming, Rochester, Syracuse and Westchester County, connections on Northwest via Detroit provide better elapsed times than any offerings under the United proposal. Even looking at Northwest's onestop service to Shanghai via Detroit and Tokyo, Northwest is faster for Binghamton, Buffalo, Elmira/Coming, New York LaGuardia, Rochester, Syracuse and Westchester County (DTW-6).

Detroit is also a superior gateway in terms of elapsed times for 10 of United's largest nonstop markets (DTW-7). These markets include United's largest hub at

Chicago, its one-stop single flight number point at Washington, D.C., and other large cities like Boston, Miami, Atlanta, Orlando, Philadelphia and Newark. In every one of these markets, the elapsed time for Northwest's Detroit-Shanghai connections is superior to United's proposed San Francisco-Shanghai connections. For the ten markets, the elapsed time savings on a routing via Detroit rather than San Francisco ranges from 1 hour and ten minutes to more than 6 hours. For six of the ten markets, the savings is more than 3 hours — Philadelphia, Newark, Baltimore, Washington Dulles, Orlando and Miami. That is a considerable saving of time for passengers in several of the largest U.S.-China O&D markets.

Not surprisingly, given the elapsed time superiority of Detroit over San Francisco, an analysis of O&D data that we are not disclosing shows that Detroit is definitely the preferred gateway for most passengers in the Midwest and East, while San Francisco and Los Angeles are preferred in the Western States (DTW-8).

C. NORTHWEST IS MORE DEDICATED TO U.S.-CHINA MARKET

Northwest has shown in the past 2 years that it is dedicated to providing nonstop service between the United States and China. It is the only U.S. airline currently providing such service. United, which has been allocated 14 of the currently available 27 frequencies, does not provide any nonstop service. For the first time in this proceeding, it proposes to do so. Thus, despite the lead in overall

U.S.-China frequencies that United enjoys over Northwest (14-9), Northwest actually carries more U.S. -China O&D passengers (DTW-9). We also have evidence that the load factor on Northwest's Detroit-Beijing service is higher than the load factors on the San Francisco-Tokyo-Beijing/Shanghai service provided by United (DTW- 10).

Northwest has been criticized by United for the additional access it secured to China with its code share relationship negotiated with Air China. That relationship places the NW code on Air China service between China and San Francisco and between China and Los Angeles. Air China then has its code on connecting services provided by Northwest from San Francisco to Minneapolis, Detroit and Memphis, and between Los Angeles and Minneapolis, Detroit, Memphis and Las Vegas. Since neither Air China gateway is a Northwest hub, there are not many connecting flights on which Air China could place its code. As Northwest explained very carefully and thoroughly in its Consolidated Reply at pp. 7-8, the cases cited by United all involved U.S. carriers applying for frequencies to be used in U.S. hub to foreign hub markets in which both the U.S. carrier and the foreign carrier provided service. That is not the case in this proceeding. Air China does not provide its own service to Detroit. Northwest is not operating hubs at either Los Angeles or San Francisco, and is not applying for service from either

point to China (DTW-11). The cases are clearly distinguishable. The claim by San Francisco in its answer in support of United that United needs more frequencies to achieve parity with Northwest is ridiculous.

D. NORTHWEST/DETROIT IS A MORE COMPLETE HUB FOR U.S.-CHINA SERVICE THAN UNITED/SAN FRANCISCO

The Northwest hub at Detroit is larger than the United hub at San Francisco (DTW-12). Northwest/Detroit has 530 daily nonstop departures, compared to 328 for United/San Francisco. It stands to reason that the Detroit gateway can serve more behind gateway points than can San Francisco. We have looked at the potential behind points for Detroit and San Francisco, and have eliminated points with more than 20 percent circuity. We have found 82 nonstop markets for Detroit and 38 for San Francisco (DTW-13). Additionally, of Northwest's 99 nonstop domestic nonstop markets at Detroit, 84 would be better served over Detroit than over San Francisco (DTW- 14). Thus, the strength of the Detroit hub will strongly support the China services.

San Francisco indicated plans for improvements at its airport. Detroit is constructing a new Midfield Terminal. The \$786 million terminal is 2,000,000 square feet, housing 74 jet gates and 25 commuter gates. The terminal is scheduled

to open in 2001, and by 2005, will be able to process 3200 international passengers per hour (DTW- 15).

Michigan and the Detroit area have strong ties to China that are growing rapidly as the air service provides support for strengthening the natural links. The Michigan based auto industry has made great strides in opening factories in China and working with local Chinese industry to develop parts suppliers. General Motors, Ford and Chrysler all have facilities in China to support the growing trading relationships. We show the dollar value of Michigan exports to China by industry in DTW-16.

Any new service will obviously generate tremendous economic impact for the gateway region. We show in DTW-17 an estimate of the impact of the proposed Northwest services on the Detroit region. Our numbers produce a year 1 impact of more than \$160 million, and a year 2 impact exceeding \$235 million.

E. MISSTATEMENTS BY SAN FRANCISCO

San Francisco has alleged that "over 75 percent of Northwest's proposed service involves one-stop service over Narita rather than service focused on the primary U.S.-China market" (San Francisco Consolidated Reply at page 4). This is simply wrong. Northwest has proposed, as San Francisco even noted, 3 weekly **nonstops**

between Detroit and Shanghai. We assume San Francisco counted the 4 all-cargo frequencies Northwest requested, but even if that is included, 8 of 11 is not more than 75 percent, using any form of math. What seems more relevant, however, is that Northwest proposes to operate 8 of its 16 combination frequencies nonstop between the U.S. and China, and has been operating 5 out of its 9 frequencies between the United States and China nonstop. Both of those relationships are 50 percent nonstop flights or more. United has operated all 14 of its frequencies via Japan, so its current percentage of nonstop flights is ZERO. If United obtains its frequency request and operates 7 frequencies nonstop between San Francisco and Shanghai, it would be operating 7 of 21 frequencies nonstop. That is 33 1/3 percent, by our calculations, and is well below what Northwest/Detroit would have.

Additionally, San Francisco seems to take the position that United, which has ignored the nonstop market for the last 5 years, should now be totally rewarded with everything it wants. Meanwhile, Northwest, which devoted 5 of its more scarce 9 frequencies to the nonstop Detroit-Beijing market, should be penalized because now it is applying for 7 combination frequencies (same number of combination frequencies sought by United), but Northwest will use only 3 for nonstop services. Northwest plans to use the other 4 combination frequencies it seeks to attempt to compete more effectively in the U. S.-Japan-China market that United has

dominated1 with 14 frequencies since 1994. Why should Northwest be penalized for its efforts in the nonstop market while United concentrated far more frequencies in Japan-China operations and none in the nonstop market. That hardly seems fair. If both carriers received all of their requested combination frequencies, which IS a possible outcome, Northwest/Detroit would have more U.S.-China nonstop flights than United/San Francisco.

San Francisco has also totally misunderstood precedents in the U. S.-Germany, U.S.-Brazil and U.S.-France proceedings. As we explained above, those decisions all involved cases where the foreign carriers code sharing with the U.S. applicant carrier also served the hub to hub market applied for, and could add service if desired. That is NOT the case here.

San Francisco says that the critical need of the U.S.-China market is for daily, nonstop, combination U. S.-China service. **IF** that is the critical need, its carrier, United, could have recognized it and provided it long ago. Northwest has been providing such service, whether that is the critical need or not. The Northwest/Detroit proposal provides more of that, too – serving Beijing as well as Shanghai.

F. SINGLE FLIGHT NUMBER BEHIND GATEWAY SELECTION OF NEW YORK IS PREFERABLE TO -WASHINGTON, DC

Northwest has proposed single flight number service to Beijing for New York's LaGuardia airport and single flight number service to Shanghai for Newark airport. United has proposed to provide single flight number service to Shanghai for Washington Dulles airport. Which single flight number service potentially reaches the largest Chinese community? We have provided some information in DTW- 18 showing the number of Chinese immigrants living in the Washington area and in the New York area. The totals are staggering:

New York Area Chinese Immigrants	149,609
Washington Area Chinese Immigrants	16,755
Percent New York of Washington	893 %

We also have numbers showing the population of the Chinese-American communities in the New York CMSA and the Washington CMSA (DTW-19).

Again, the advantage for New York is staggering.

New York CMSA Chinese-American Population	320,201
Washington CMSA Chinese-American Population	39,034
Percent New York of Washington	820 %

While the above illustrates that New York is a better behind point than Washington for Shanghai service, our elapsed time evidence in DTW-5 shows that the Northwest/Detroit service provides faster elapsed times to Shanghai for LaGuardia, Newark and Washington over United/San Francisco. Thus, both New York and Washington will be better off with the Northwest/Detroit service to Shanghai.

V. CONCLUSIONS

We have believed from the beginning that this case requires Direct Exhibits, Rebuttal Exhibits and Briefs before a well-reasoned decision should be made. However, since the Department seems to be headed in the direction of a quicker decision based only on filings made to date, we submit the following. For 1999, we believe that 5 frequencies should be immediately awarded to Northwest for combination services between Detroit and China. The other three available frequencies can then be assigned to ah-cargo service, where Northwest offers to provide competitive ah-cargo service in this marketplace, with a concentration on heavier cargo rather than small package services, and where Federal Express promises more intra-Asia small package services. For 2000, when the Department must allocate 9 frequencies, the choices are more difficult, but we believe you

should assign 2 frequencies for Northwest/Detroit services. This would provide another nonstop frequency to Shanghai and the only Beijing new service proposed by a combination carrier in this proceeding. We take no **further** position on your remaining dilemma in deciding between Federal Express' application and that of United. Finally, we ask that if you believe it is necessary in order to receive this document, that you approve our motion to file this document.

Respectfully submitted,

Bill Alberger

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Counsel to the

WAYNE COUNTY PARTIES

May 7, 1999

CERTIFICATE OF SERVICE

I hereby certify that copies of the Supplemental Consolidated Reply of Wayne County, Michigan and the Detroit Metropolitan Wayne County Airport were served this 7th day of May, 1999 by courier or mail on the attached Service List.

Bill Alberger

For Federal Express

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The "High Value" Cargo Markets, As Defined by Federal Express, Represent Only 4% of the US-China Air Cargo Market

1998 US-ChinaTrade by Air	"High Value" Commodities /1	All Commodities	Percent "High Value"
Total US-China (lbs)	24,980	586,412	4.3%
US Exports to China (lbs)	21,537	80,184	26.9%
US Imports to China (Ibs)	3,443	506,228	0.7%

^{/1 &}quot;High Value" Commodoties defined as commodities valued at a minimum of \$75 per pound per Exhibit FX-113.

Source: Exhibits FX-277 and FX-274

Detroit -- Shanghai Nonstop Service will Connect the Motor Capital of the U.S. with the Motor Capital of China

- ⇒ Shanghai's auto industry is an \$8 billion business (1996)
- ⇒ Transportation equipment ranks second in dollar value of exports
 to China from Michigan
- ⇒ At least 12 U.S. auto-related businesses operating in Shanghai are: headquartered in Michigan

Source: Shanghai Automotive Industry Corp., U.S. Census Bureau, State of Michigan

40 Michigan Companies Have Offices or Joint Ventures in China

27 Michigan Companies Have Offices or Joint Ventures in Shanghai

1. Acheson Limited Shanghai Representative Office

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Fax: 86-2 1-6469-980 1 Contact: Timothy R. Scales Representative Office

Headquarters: MI Industrial Code: ZSV

• Research Services Market, Economic, Trade

2. AlliedSignal Turbocharging Systems, Shanghai Ltd.

Zhang Jiang Hi-Tech Park No. 8, Niu Dun Rd. Pudong

Shanghai 201203

Tel: 86-21-5080-1020 Fax: 86-21-5080-1030 Contact: Paul Wang

Title: Manager, Procurement

Foreign Enterprise

Headquaters: NJ (a branch in MI)

Industrial code: APS

• Automotive Products, Supplies

3. Amway (China) Co., Ltd. Shanghai Branch

2/F, Sino Bldg, 113 Nan Dan East Rd.

Shanghai 200030 Tel: 86-21-6438-5188 Fax: 86-21-6438-52 11

E-mail: Percy-china@amway.com

Contact: Percy Chin

Vice General Manager

Headquarters: MI
Industrial Code: COS

• Cosmetics & Toiletries

4. Davvning & Bright Corp., Inc. (USA), Shanghai Office

37 Shuicheng Rd., Vanke Commercial Plaza

E Bldg, #1002/C, Gubei New Area

Shanghai, 201103
Tel: 86-2 1-6295-2828
Fax: 86-21-6270-2495
Contact: Richard Cul
Title: Chief Representative
Representative Office
Headquarters: MI

Industrial Code: OGM

• Petrochemicals, Machineries & Equipments

5. Delphi Packard Electric Shanghai Co., Ltd.

492 Moyu Road, Anting Town Jiading, Shanghai 20 1805 Tel: 86-21-5957-3781

Fax: 86-21-5957-2064 Contact: Nancy Gougarty

Joint Venture Headquarters: MI Industrial Code: APS

• Automotive Products, Supplies, Services

6. Delta (Masco) Faucet Company Shanghai Rep. Office

E, 18/F Xin Jian Ye Center 2438 Zhong Shan North Road

Shanghai 200063 Tel: 86-21-6285-5561 Fax: 86-21-6285-5567

E-mail: deltasha@public.sta.net.cn

Contact Person: Sam Yang

Title: Manager Representative Office

Headquaters: IN (a branch of Masco, Masco's headquarters is in MI)

Industrial Code: BLDFaucet of Bath Lavatory

• Kitchen & Household Equipment

7. Dow Chemical (China) Ltd.

Suite 1101, Shui On Plaza 333 Huai Hai Zhong Road

Shanghai 200021

Tel: 86-2 1-6336-6998 Fax: 86-21-6336-7917 Contact: David Lu

Title: Chief Representative Representative Office Headquarters: MI Industrial Code: ICH
• Chemicals Products

8. Dow Corning (Shanghai) Co., Ltd.

Suite 709, Dynasty Business Centre,

457 Wulumuqi North Road

Shanghai, 200040

Tel: 86-2 1-6249-23 16
Fax: 86-2 1-6249-23 17
Contact: Alex Tan
Representative Office
Headquaters: MI
Industrial Code: GIE

• Manufacturing Other

9. Eaton Corporation

Suite 2206-2208 Super Ocean Finance Centre

2168 Yan An West Road

Shanghai 200335 Tel: 86-21-6278-5090 Fax: 86-2 1-6278-5089

E-mail: GordonDore@vines.etn.com

Contact: Gordon Dore Title: General Manager

Joint Venture

Headquaters: OH (branches in MI)

Industrial Code: APS

• Automotive Products, Supplies

10. Ford Automotive Components Ops. Inc.

Suite B, 3/F, Yin Hai Building

250 Caoxi North Road Shanghai 200233

Tel: 86-21-6475-1135 Fax: 86-21-6482-2241

E-mail: dsherman@ford.com Corporate: David H. Sherman Title: Chief Representative Representative Office Headquarters: MI Industrial Code: APS

11. General Motors Overseas Corp. Shanghai Branch

4/F, Tomson International Commercial Building

7 10 **Dongfang** Road, Pudong

• Manufacturing Other

Shanghai 200 122

Tel: 86-21-6875-8833 Fax: 86-21-5830-7439 Contact: Sandra Thompkins Title: General Director Hum.

Representative Office Headquarters: MI Industrial Code: APS • Manufacturing Other

12. Giddings & Lewis, Inc.

Rm. 2103, Shenxin Bldg. 200 Ninghai Rd. (E), Shanghai 200021

Tel: 86-2 1-6374-2997 Fax: 86-2 1-6374-2998 Contact Person: Fred Qian Representative Office

Headquarters: WI (a branch in MI)

Incorporated: USA

• Automotive Products, Supplies

13. GM China, Inc. Shanghai Office

4/F, Tomson International Commercial Building 7 10

Dongfang Road, Shanghai, 200122

Tel: 86-21-6875-8833 Fax: 86-21-5830-7435 Contact: Philip F. Murtaugh

Representative Office Headquarters: MI Industrial Code: TRK • Manufacturing Other

14. Haworth Furniture (Shanghai) Co., Ltd.

19/F, OOCL Plaza, 841 **Yanan** Middle Road

Shanghai 200040

Tel: 86-21-6289-6855 Fax: 86-21-6289-5833

E-mail: colin.snow@haworthinc.com

Contact Person: Colin Snow

Foreign Enterprise
Headquaters: MI
Industrial Code: FUR

• Office Furniture

15. Haworth Furniture (Shanghai) Co., Ltd.

No. 2 Factory., Lot FW 7-3

360 Xi Ya Road

Waigaoqiao Free Trade Zone

Shanghai 200137 Tel: **86-2** 1-5046-0907 Fax: 86-2 1-5046-09 11

Contact Person: Terry L. Locatis

Foreign Enterprise
Headquarters: MI
Industrial Code: FUR

• Metals/Metal Products

16. HOK Inc. Shanghai Rep. Office

Suite 19C, Shanghai TV & Broadcasting Tower

651 Nanjing West Road

Shanghai 200041

Tel: 86-2 1-6267-9260 Fax: 86-21-6267-9259

E-mail: hokshg@uninet.com.cn Contact: Qingdong Liang Representative Office Headquarters: MI Industrial Code: ACE

• Architects/Building Systems Manager

17. Kmart Shanghai

Suite I/J, 22/F, Hua Du Mansion, 838 Zhangyang Road

Shanghai, 200 122 Tel: 86-2 1-5820-3204 Fax: 86-21-5820-6526

E-mail: raymer@public.sta.net.cn

Contact: Lizhen Ye Representative Office Headquarters: MI Industrial Code: TRD

Trading

18. Methode Electronics (China) Inc.

38 Cao:xi Bei Road, Suite 23B

Shanghai 200233 Tel: 86-2 l-6438-9861 Fax: 86-21-6438-9861

E-mail:,methode@uninet.com.cn Contact: Bowei Yu, PH.D

Title: Director-China Representative Office Headquarters: MI Industrial Code: APS

• Automotive Products, Supplies

19. Pan Asia Technical Automotive Center Co., Ltd.

141, Liangji Road, Jinqiao Pudong

Shanghai 201206 Tel: 86-21-5899-1333 Fax: 86-21-5899-1517 Contact: Martin Long Title: General Manager

Joint Venture
Headquarters: MI
Industrial Code: APS

• Automotive Research

20. Shanghai Donnelly Fu Hua Window Systems Co., Ltd.

700 Yao Hua Road, Pudong

Shanghai 200126 Tel: 86-21-5845-9564 Fax: 86-2 1-5845-5683 Contact: Jim Ciccateri Title: General Manager

Joint Venture Headquaters: MI Industrial Code: APS

• Automotive Products, Supplies

21. Shanghai Fudian Automotive Electronics Co., Ltd.

300 Minolta Road

Songjiang County, Shanghai 201600

Tel: 86-21-5774-1278 Fax: 86-21-5774-1271

E-mail: sbarnes1@gw.ford.com

Contact: Scott Barnes Title: General Manager

Joint Venture Headquarters: MI Industrial Code: APS

• Automotive Products, Supplies

22. Shanghai Lomason Automotive Seating Systems Co., Ltd.

3 138 Gong He Xin Road

Shanghai 200072

Tel: 86-21-5665-1956 Fax: 86-21-5665-1956

E-mail: slassco@public.sta.net.cn Contact: W. Keith Lomason

Title: Prsident

Representative Office Headquaters: MI Industrial Code: APS

• Automotive Products, Supplies

23. Shanghai Ri Yong-UTA Gate Electric Co., Ltd.

565, Guangzhong Road

Shanghai 200083

Tel: 86-21-5665-2500 Fax: 86-21-5665-1711 Contact: Wolfgang Weber Title: Vice General Manager

Joint Venture
Headquarters: MI
Industrial Code: ELO
• Fraction Horsepower

24. Steelcase Asia Inc. China

Flat 20 F2, Jiushi Renaissance Mansion

9 18 Huai Hai Rd.

Shanghai 200020

Tel: 86-21-6415-5363 Fax: 86-21-6415-5298

Contact Person: Todd Shepherd

Representative Office Headquaters: MI Industrial Code: FUR

• Office Automation/Business Systems

25. Shunde Whirlpool SMC Microware Products Co., Ltd. Shanghai Offices

Unit A & B, 17/F, Shanghai East Ocean Centre

588 Yan An East Road,

Shanghai 200001

Tel: 86-21-6350-8228 Fax: 86-21-6350-8229 Contact: Vicent Yuen Representative Office Headquarters: MI Industrial Code: ACR

• Air Conditioning, Refrigeration & Service

26. Whirlpool Greater China Inc. Shanghai Rep. Office

8/F, Novel Plaza

128 Nanjing West Road

Shanghai 200003

Tel: 86-21-6350-8228 Fax: 86-21-6350-8233

E-mail: Vincent-Yuen@email.whirpool.com

Contact: Vincent Yuen Title: President & MD Representative Office Headquarters: MI Industrial Code: ACR

• Air Conditioning, Refrigeration

27. Whirlpool Narcissus (Shanghai) Co., Ltd.

25 Sharp Road, Jinqiao Export Processing District

Pudong, Shanghai 201206 Tel: 86-21-5899-5179 Fax: 86-21-5899-5767 Contact: Hank Orme Title: General Manager

Joint Venture
Headquaters: MI
Industrial Code: GCG
• Consumer Goods

40 Michigan Companies Have Offices or Joint Ventures in China

14 Michigan Companies Have Offices or Joint Ventures in Beijing

1. Amway (China) Ltd.

5/F Grand Pacific Building 8A Guang Hua Rd.

Chaoyang Dist. Beijing 100026

Tel: 86- 1 o-6503-2288 Fax: 86- 1 o-6500-8282 Contact: Audie Wong • Consumer Products

2. Beijjing Jeep Corporation, Ltd.

36, Guang Qu Road Chao Yang Dist., Beijing 100022

Tel: **86**-- 1 O-677 1-2233 Fax: 86-10-6771-1363 Contact: Andy Okab Title: Vice President

. Auto

3. Chrysler International Services, S.A. China Business Office

Jing Guang Centre, Suite 2603-2605 Hu Jia Lou, Chao Yang District

Beijng 100020

Tel: 86- 1 O-650 l-2894/3024 Fax: 86-10-6501-4595 Contact: Edmond P. Chu

Title: Director, Sales & Marketing

. Auto

4. Delphi Automotive Systems China Inc.

Block C. Guomen Building No. 1 Zuojia Zhuang, Chaoyang Dist.

Beijing 100028

Tel: 86-10-6468-8822 Fax: 86-10-6468-4601

Contact: Marcus Chao, Ph.D.

Auto Parts

5. Dow Chemical (China) Ltd.

Rm. 23rd F1, CITIC Building 19 Jianguomenwai Dajie

Beijing 100004

Tel: 86- 1 O-6593-9966 Fax: 86-10-6500-3914 Contact: Eric Chen • Chemical Products

6. Dow Corning China Ltd.

Suite 8-D CITIC Building 19 Jianguomenwai Dajie Beijing 100004

Tel: 86- 10-6500-305 1 Fax: 86-10-6504-5652 Contact: Kenneth Chan

• Silicone & silicone-related products

7. Ford Foundation

Rm. 501, International Club Office Tower 21, Jianguomenwai Ave.

Beijing 100020

Tel: 86-l 0- 6532-6668 Fax: 86-10-6532-5495

E-mail: ford-beijing@fordfound.org

Contact: Tony Saich
Non-Profit

8. Ford Motor (China) Ltd.

3/F, West Wing China World Trade Centre 1 Jianguomenwai Street Beijing 100004

Tel: 86- 1 o-6505-2229 Fax: 86-10-6505-0610 Contact: Chang An Tien

Title: Director

Government Affairs

. Auto

9. GM Overseas Corp.

Block C Guo Men Bldg. 4/F 1, Zuo Jia Zhuang Beijing 100028

Tel: 86- 1 O-6468-7788 Fax: 86-10-6468-7879 Contact: Larry Zahner

. Auto

10. Haworth Furniture

30/F, Silver Tower

2, Dong Sanhuan Bei Lu

Chaoyang Dist., Beijing 100027

Tel: 86-10-6410-6601/05 Fax: 86-10-6410-6671

E-mail: lam.fung@haworthinc.com

• Office Furniture

11. ITT Industries

Room 332, Great Wall Hotel

Beijing 100026

Tel: 86-10-6500-5566 * 332

Fax: 86-10-6591-7871 Contact: Li Xiao Chong Office Manager

• Auto Parts

(ITT's headquarters is in NY, but has strong business in MI)

12. ITW Beijing Office

ITW Balance Engineering

Room B2008, Vantone New World Plaza

2, Fucheng Menwai Avenue

West Dist., Beijing, 100037

Tel: 86-10-6858-8116 Fax: 86-1 O-6858-8 117 Contact: Lu Xiaoda

• Machine Tool

(ITW's headquarters is in IL, but has strong business in MI)

13. Western Atlas

Lido Park Office Building Lido Holiday Inn Hotel Jichang Road, Jiang Tai Rd.

Beijing 100004

Tel: 86-10-6437-9858 Fax: 86-10-6437-9857 Contact: Steve Li Representative

• Machine Tool

14. Tarus Products, Inc.

B22 Yingtai Mansion Xizhimen Wai, Beijing, P.R. China Tel: 86-10-6836-3311*2187

Fax: 86-10-8837-2711

Email: joinuscn@public.east.cn.net

Contact: He Yilin

• CNC Milling Machine, Drilling Machine, Coordinate Measuring & Scanning Machines

40 Michigan Companies Have Offices or Joint Ventures in China

Other Michigan Companies in China

1. American Induction Heating Corporation

Suite 3-.A, Building A, Lane 299 FuDu Garden, XuanHua Road

Shanghai 200050 Tel: 86-21-6240-4128 Fax: 86-21-6240-4 129 Contact: Gary Shen

Title: Director of Sales - Asian Pacific Rim

Representative Office

• Induction Heating Equipment and Repairing

2. Amway (China) Co., Ltd.

41/F Citic Plaza

#233 Tian He Road North

Guangzhou, Guangdong 5 10620

Tel: 86-20-8755-2368 Fax: 86-20-8755-4801/4802

Contact: Betty Yeung

Title: South China General Manager

• Personal Care Products

3. Atlas Technologies

Room 110, Heqiao Building 8A Guanghua Road Beijing., China 100026 Tel: 86-10-6508-1717

Software

4. Comdumex. Inc.

Rm. 40410, Beijing Friendship Hotel

Baishi Qiao Road, Beijing Tel: 86-1 O-6849-8934 Fax: 86-1 O-6849-8935

Contact: Shuai Yu

Title: Manager-Asian Pacific Operations

Representative Office

• Cables & Wires for the Electrical and Telecommunications Industries

5. CompuPacific International

Rm. 206, ChuangXin Bldg.

Xi'an, Shanxi

Tel: 86-29-822-6388 Fax: 86-29-822-4628

E-mail: China Sale@cpmpupacific.com

Contact: Michael Liu Title: President

• Computer Programming & Software

6. Dow Chemical (China) Ltd.

Rm. 3605, CITIC Plaza, Tian He North Rd.

Guangzhu, Guangdong 5 10620

Tel: 86-20-8752-0383 Fax: 86-20-8752-0332 Contact: Michael Chow

Title: Manager

• Chemical Products

7. Future Trends International (Group) Corp.

Hong Ye Business Center 2-D

825 Zhao Jia Bang Road

Shanghai 200032

Tel: 86-21-6428-1396 Fax: 86-21-6428-1397

E-mail: FTICHINA@public.sta.net.cn Contact:: Farzam Kamalabadi

Title: PresidentConsulting

8. General Motors Overseas Co., Shenyang Office

No. 15-1, Riverside Garden

215, Qingnian Street, Shenhe District

Shenyang, Liaoning 110005

Tel: 86-24-2384-6004 Fax: 86-24-2384-3423

E-mail: Jeabell@pub.sy.lnpta.net.cn

Contact: Ian Miller Title: Managing Director Representative Office

• Automotive

9. Johnson Controls

103, Beiheyan Street

Dongcheng Dist. Beijing 100006 Tel: 86-10-6527-773 1/32/34/35

Fax: 86-1 o-6527-7730 Contact: Sheng Weili

Building Automation System

(Its Headquarters is in WI, but it has significant operation in MI)

10. Johnson Controls International Inc. (GZ Office)

Rm 3102, Tower 2, Dong Jun Plaza

836 Dong Feng Road East

Guangzhou, Guangdong 5 10060

Tel: 86-20-8760-588 1 Fax: 86-20-8760-5735

E-mail: shling@public.guangzhou.gd.cn

Contact: S. H. Ling Title: General Manager

Controls

(Its Headquarters is in WI, but it has significant operation in MI)

11. Johnson Controls Systems & Equipment (Shenzhen)

19/F, Block C, Tian An Int'l Building

Renmin Nan Rd., Shenzhen, Guangdong 5 18005

Fax: 86-755-229-5066 Contact: Stephen Shang Title: General Manager

Controls

(Its Headquarters is in WI, but it has significant operation in MI)

12. Kellogg's (China) Ltd.

Bei Wei Industrial District, GETDZ, Huangpu

Guangzhou, Guangdong 5 10730

Tel: 86-20-8221-1151 Fax: 86-20-8221-7269

E-mail: dodie.cadiz@kellogg.com Contact: Eduardo T. Cadiz Jr.

Title: General Manager

• Cereal Breakfast Food & Convenience Food

13. Pharmacia-Upjohn

Rm. 823-825, Guanghua Changan Bldg.

7 Jiannei Dajie

East District, Beijing 10002 1

Tel: **86-** 1 O-65 1 O-2978 Fax: **86-** 1 O-65 1 O-2972

Contact: Lai Min
• Pharmaceuticals

(Its headquarters is in NJ, but it has significant holding in MI)

14. Shanghai Songjiang Lear Automotive Carpet & Acoustics Co., Ltd.

279, Yu Shu Road

Cang Qiao Industrial Zone

Songjiang District, Shanghai 201600

Tel: 86-21-5772-7740 * 201

Fax: 86-21-5772-7741

E-mail: thomasliu@hotmail.com
Contact: Thomas A. Liu
Title: General Manager

. Auto Parts

15. Upjohn Suzhou Pharmaceutical Company, Ltd.

180, Zhu Yuan Road

SND. Suzhou, Jiangsu 215011

Tel: 86-5 12-825-2990 Fax: 86-5 12-825-3669 Contact: LA Wells Title: General Manager

Joint Venture
Medical

(Its headquarters is in NJ, but it has significant holdings in MI)

16. Upjohn Suzhou Animal Health Products Company, Ltd.

180, Zhu Yuan Rd., SND. Suzhou

Suzhou., Jiangshu 2 150 11 Tel: 86-5 12-825-2990 Fax: 86-5 12-825-6549

Contact: RT Lee

Title: General Manager

Joint Venture

• Animal Health Products

(Its headquarters is in NJ, but it has significant holdings in MI)

17. Walbro Corporation

- 1) Tianjin Walbro Industries Tianjin, China
- Fujian Hualong Carberator Co. Fuding, Fujian Province China Joint Venture

18. Whirlpool (China) Co., Ltd. Guangzhou Office

Rm. 2108-2110 Dongshan Plaza, 45 Xian Lie Zhong Rd.

Guangzhou, Guangdong 5 10080 Tel: 86-20-8732-1829/0647/4950

Fax: 86-20-8732-1900

Contact: Ms. Xu or Ms. Wang

• Household Appliances

19. Whirlpool (China) Co., Ltd. Shenzhen Factory

Ban Tian Industrial District, Bu Ji Town

Shenzhen, Guangdong 5 18 129

Tel: 86-755-889-0222 Fax: 86-755-889-0987 • Household Appliances

20. Whirlpool (China) Co., Ltd. Shenzhen Office

5/F West, 418 Hua Qiang North Rd.

Shenzh.en, Guangdong 5 1803 1

Tel: 86-755-325-4888 Fax: 86-755-324-4962

Household Appliances

21. Wuxi Air-xi Gage Company

No. 5-1 Hanjiang Road

Wuxi, Jiangsu Province 2 14028

Tel: 86-510-5213-088 Fax: 86-510-5213-688 Contact: Duan Hailian

• Gage

Joint Venture

22. Z & P International Company

3/F, No, 30, Hunan Road

Shanghai 20003 1 Tel: 86-2 1-6436-0543

Fax: 86-2 1-6474-2 152 Contact: Wang Jiuxia Title: Chief Representative Representative Office

• Consulting

Federal Express is Requesting a Disproportionate Share of the Limited US-China Frequencies Available in the Proceeding - 82% Compared to a 22% All Cargo Share for the Transpacific Market

		Frequencies- Transpacific	April 1999 Transatlantic	Federal Express US-China Proposal
U.S. All-Cargo Services	4	95	63	14
US Combination Services	23	333	1,012	3
Total	27	428	1,075	17
Percent All Cargo	14.8%	22.2%	5.9%	82.4%

Source: OAG Schedule Tapes, April 1999

NW's Detroit Gateway Will Provide the Fastest Travel Times for 39 of the Top 50 US-Shanghai O&D Markets

SHA		Observat El	T	Cummulative	
0&D	110.0%		apsed Time	US-SHA O	
Rank	US City	DTW	SFO	DTW	SFO
					_
1	New York	Χ		21.9%	0.0%
2	Chicago	X		34.1%	0.0%
3	Washington	Χ		42.7%	0.0%
4	Boston	X		48.1%	0.0%
5	Seattle/Tacoma		Χ	48.1%	4.5%
6	Houston		X	48.1%	8.1%
7	Atlanta	X		51.3%	8.1%
8	Dallas/Fort Worth		X	51.3%	11.1%
9	Minneapolis	X		54.2%	11.1%
10	Philadelphia	X		56.8%	11.1%
11	Denver		Χ	56.8%	13.0%
12	Cleveland	Χ		58.6%	13.0%
13	Miami	X		60.5%	13.0%
14	Portland		Χ	60.5%	14.6%
15	Orlando	Χ		62.0%	14.6%
16	St. Louis	Χ		63.3%	14.6%
17	Baltirnore	Χ		64.6%	14.6%
18	San Diego		Χ	64.6%	15.8%
19	Rochester	Χ		65.8%	15.8%
20	Pittsburgh	Χ		67.0%	15.8%
21	Indianapolis	Χ		68.2%	15.8%
22	Raleigh/Durham	Χ		69.3%	15.8%
23	Cincinnati	Χ		70.3%	15.8%
24	Tampa	Χ		71.3%	15.8%
25	Phoenix		X	71.3%	16.7%

NW's Detroit Gateway Will Provide the Fastest Travel Times for 39 of the Top 50 US-Shanghai O&D Markets

SHA O&D		Shortest El	apsed Time	Cummulat ive US-SHA C	
Rank	US City	DTW	SFO	DTW	SFO
	Acception		.,,		
26 27	Aust in	V	Χ	71.3%	17.5%
27	Milwaukee	X		72.0%	17.5%
28	Kansas City	X	.,	72.7%	17.5%
29	New Orleans		Χ	72.7%	18.2%
30	Charlotte	X		73.4%	18.2%
31	Columbus	X		74.1%	18.2%
32	Memphis	X		74.7%	18.2%
33	Hartford	X		75.4%	18.2%
34	Buffalo	X		75.9%	18.2%
35	Grand Rapids	X		76.5%	18.2%
36	Syracuse	X		77.0%	18.2%
37	Nashville	X		77.6%	18.2%
38	Salt Lake City		Χ	77.6%	18.7%
39	Jacksonvi I le	X		78.0%	18.7%
40	Albany	X		78.4%	18.7%
41	Harrisburg	Χ		78.8%	18.7%
42	Richmond	X		79.1%	18.7%
43	Dayton	Χ		79.5%	18.7%
44	Greensboro	X		79.8%	18.7%
45	Sacrament 0		Χ	79.8%	19.0%
46	Greenville/Spartanburg	Χ		80.0%	19.0%
47	Birmingham	Χ		80.3%	19.0%
48	Louisville	Χ		80.5%	19.0%
49	Des Moines	Χ		80.8%	19.0%
50	Saginaw	Χ		81.0%	19.0%
	Total Top 50	39	11	81.0%	19.0%

Note: Excludes Gatew ays: San Francisco, Los Angeles, Detroit and Non-Mainland Points: Hawaii, Guam and other US Pacific Territories. Shortest elapsed time based on travel in both directions.

Source: US DOT, O&D Database, YE 3Q 7998 and OAG Schedule Tapes, May 7999

Connections on Northwest via Detroit Provide Better Elapsed Times from New York State to Shanghai than United's SFO Proposal

	Depart	First Conned	Arrive	Depart	Second Connect	Arrive	Depart	Arrive SHA 1/	Elapsed Time
rthwest									
Albany	06:15	Detroit	07: 58	12:30	-			15:25 + 1	21:10
·	09:15	Detroit	10:57	12:30			>	15:25 + 1	18:10
	09:15	Detroit	10:57	15:25	Nari ta	17:15 +1	18:35	20:40	23:25
Binghamton	05:40	Detroit	08:10	12:30			—	15:25 + 1	21:45
-	08:40	Detroit	11:10	12:30			—	15:25 + 1	18:45
	08:40	Detroit	11:10	15:25	Narita	17:15 +1	18:35	20:40	24:00
Buff alo	06:45	Detroit	07:51	12:30			—	15:25 + 1	20:40
	10:20	Detroit	11:29	12:30				15:25 + 1	17:05
	10:20	Detroit	11:29	15:25	Narita	17:15 +1	18:35	20:40	22:20
	12:55	Detroit	14:04	15:25	Narita	17:15 +l	18:35	20:40	19:45
Elmira/Corning	06:25	Detroit	08:10	12:30				15:25 + I	21:00
•	09:25	Detroit	11:10	12:30				15:25 + 1	18: 00
	09:25	Detroit	11:10	15:25	Narita	17:15 +1	18:35	20:40	23:15
New York JFK	06: 05	Detroit	08:02	12:30				15:25 + 1	21:20
	09:00	Detroit	11:09	12:30				15:25 + 1	18:25
	09:00	Detroit	11:09	15:25	Narita	17:15 +1	18:35	20:40	23:40
New York LGA	06:10	Detroit	08:05	12:30				15:25 + 1	21:15
	07:40	Detroit	09:41	12:30	-		—	15:25 + 1	19:45
	09:29	Detroit	11:30	12:30			—	15:25 + 1	17:56
	09:29	Detroit	11:30	15:25	Narita	17:15 +l	18:35	20:40	23:11
	11:05	Detroit	13:05	15:25		17:15 +l	18:35	20:40	21:35
	12:48	Detroit	14:40	15:25		17:15 +1	18:35	20:40	19:52
Rochester	06:35	Detroit	07: 47	12:30	-		—	15:25 + I	20:50
	10:10	Detroit	11:26	12:30				15:25 + 1	17:15
	10:10	Detroit	11:26	15:25	Narita	17:15 +1	18:35	20:40	22:30
	12:35	Detroit	14:10	15:25		17:15 +1	18:35	20:40	20:05
Syracuse	06:20	Detroit	07:48	12:30			—	15:25 + 1	21:05
,	09:20	Detroit	10:45	12:30			_	15:25 + 1	18:05
	09:20	Detroit	10:45	15:25	Narita	17:15 +1	18:35	20:40	23:20
	12:35	Detroit	14:07	15:25		17:15 +1	18:35	20:40	20:05
Westchester	06:15	Detroit	08:00	12:30				15:25 + I	21:10
	09:30	Detroit	11:22	12:30				15:25 + 1	17:55
	09:30	Detroit	11:22	15:25	Narita	17:15 +1	18:35	20:40	23:10
	12:40	Detroit	14:28	15:25		17:15 +1	18:35	20:40	20: 00
ited									
Albany	06: 04	Chicago	07:15	08:00	San Francisco	10:28	11:25	15:25 + I	21:21
Binghamton	No Connecting S								
Buffalo	06:45	Chicago	07:19	08:00	San Francisco	10:28	11:25	15:25 + 1	20:40
Elmira/Corning	No United Service	ce							
New York JFK	07: 00	San Francisc	10:12	11:25				15:25 + 1	20:25
New York LGA	06:00	Chicago	07:10		San Francisco	10:28	11:25	15:25 + 1	21:25
Rochester	06:15	Chicago	06: 57	08:00	San Francisco	10:28		15:25 + 1	21:10
Syracuse	No Connecting S								
Westchester	No Conneding S								

Northwest's DTW Gateway Provides Shorter Elapsed Travel Time for 10 of United's Nonstop SFO Markets, Including Washington

	Travel ⁻	Northwest Time	
	NW	UA	Advantage
Market	Via DTW	Via SFO	(Disadvantage)
<u>Westbound</u>			
Philadelphia	17:50	20:25	02:35
New York Newark	17:55	20:25	02:30
Baltimore	17:55	20:25	02:30
Hartford	18:10	20:25	02:15
Washington Dulles	17:55	19:55	02:00
Chicago O'Hare	17:25	19:25	02:00
Boston	18:35	20:20	01:45
Atlanta	17:45	19:25	01:40
Orlando	19:05	20:15	01:10
Miami	19:25	20:15	00:50
<u>Eastbound</u>			
Philadelphia	17:23	18:40	01:17
New York Newark	17:31	18:46	01:15
Baltimore	17:32	21:11	03: 39
Hartford	19:02	18:54	(80:00)
Washington Dulles	19:07	22:15	03:08
Chicago O'Hare	17:29	17:19	(00: IO)
Boston	19:31	19:23	(80:00)
Atlanta	18:20	17:50	(00:30)
Orlando	18:14	21:49	03:35
Miami	18:59	21:32	02:33

Northwest's DTW Gateway Provides Shorter Elapsed Travel Time for 10 of United's Nonstop SFO Markets, Including Washington

		Times	Northwest Time
Market	NW Via DTW	UA Via SFO	Advantage (Disadvantage)
<u>Total</u>			
Philadelphia			03:52
New York Newark			03:45
Baltimore			06: 09
Hartford			02: 07
Washington Dulles			05:08
Chicago O'Hare			01:50
Boston			01:37
Atlanta			01:10
Orlando			04:45
Miami			03:23

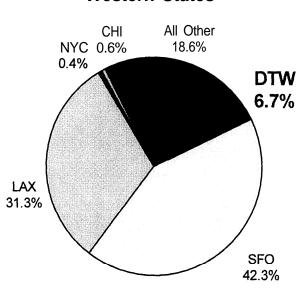
Source: OA G Schedules

Detroit is the Preferred Gateway for US-China O&D Passengers in the Eastern and Midwestern States

Eastern/Midwestern States

All Other 7.9% CHI 11.2% DTW 39.8% NYC 13.8% SFO 12.7%

Western States



Note: Excludes Non-Mainland Points: Hong Kong, Hawaii,

Guam and Other U.S. Pacific Territories

Source: U.S. DOT, O&D Databases, YE 3Q 1998

Detroit is the Preferred Gateway for US-China O&D Passengers in the Eastern and Midwestern States

China O&D Passengers by US Gateway State DTW SFO LAX NYC All Other States More Conveniently Served by NW/Detroit New York 22.8% 12.4% 11.9% 45.6% 3.1% 4.2% Illinois 24.6% 12.4% 18.2% 1.2% 39.2% 4.3% Michigan 81.3% 3.5% 5.2% 1.0% 4.3% 4.8% District of Columbia 33.4% 18.5% 20.7% 10.1% 9.5% 7.7% Florida 33.1% 19.6% 27.7% 4.2% 5.2% 10.3% Massachusetts 36.0% 20.1% 9.4% 21.1% 7.1% 6.4% 47.2% Pennsylvania 12.9% 9.8% 8.8% 16.7% 4.6% Minnesota 56.8% 4.2% 7.9% 1.3% 3.6% 26.2% Ohio 49.1% 8.8% 14.0% 1.7% 17.0% 9.3% Georgia 32.4% 18.3% 22.4% 2.0% 6.3% 18.6% Missouri 42.0% 20.7% 19.4% 9.0% 0.8% 8.0% North Carolina 50.0% 8.6% 11.8% 4.4% 17.4% 7.7% Tennessee 46.7% 8.5% 18.6% 2.2% 7.8% 16.3% Wisconsin 61.3% 5.0% 4.0% 0.2% 12.3% 17.1% Indiana 53.6% 13.4% 8.8% 16.5% 1.4% 6.4% Maryland 47.5% 15.7% 10.7% 13.2% 7.4% 5.5% Louisianna 24.7% 3.4% 40.4% 19.1% 0.8% 11.6% Virginia 52.4% 7.5% 11.0% 6.6% 18.2% 4.2% Connecticut 43.7% 11.5% 5.4% 8.8% 23.1% 7.5% Iowa 11.0% 11.9% 0.4% 20.1% 15.0% 41.6% Oklahoma 20.5% 22.3% 26.9% 2.6% 2.7% 24.9% Alabama 32.2% 16.7% 26.0% 0.0% 6.8% 18.3% Kentucky 65.3% 7.7% 15.2% 0.7% 3.4% 7.7% South Carolina1 39.5% 27.5% 4.5% 4.6% 1.5% 22.3% Rhode Island 56.2% 4.5% 5.9% 11.3% 22.0% 0.0% 30.0% 14.0% Arkansas 14.6% 0.0% 3.5% 37.9% 49.1% 4.1% 27.7% Mississippi 19.0% 0.0% 0.0% 0.0% Kansas 18.0% 34.3% 25.9% 10.8% 11.0% 55.1% West Virginia 14.0% 7.5% 6.8% 9.9% 6.5% New Hampshire 23.1% 4.0% 15.5% 0.0% 53.4% 4.0% 49.1% Maine 19.3% 22.5% 0.0% 0.0% 9.2% Vermont 56.8% 5.4% 0.0% 10.8% 16.2% 10.8% 0.0% 0.0% 0.0% 0.0% New Jersey 0.0% 100.0% 16.4% Nebraska 34.5% I 17.0% 22.0% 1.1% 9.1% North Dakota 44.0% I 25.6% 3.0% 0.0% 6.0% 21.4% South Dakota 63.4% 10.4% 0.0% 2.6% 10.4% 13.1% Subtotal NW 39.8% 12.7% 14.6% 13.8% 11.2% 7.9%

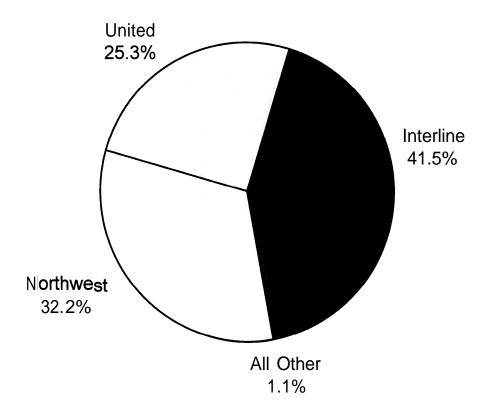
Detroit is the Preferred Gateway for US-China O&D Passengers in the Eastern and Midwestern States

	China O&D Passengers by US Gateway					
State	DTW	SFO	LAX	NYC	CHI	All Other

States More Convenie				0.50/	0.40/	4.4.007
California	0.5%	47.0%	37.9%	0.5%	0.1%	14.0%
Texas	24.8%	34.5%	22.2%	0.5%	1.6%	16.4%
Washington	0.4%	29.0%	11.5%	0.3%	0.2%	58.6%
Colorado	13.0%	51.7%	29.7%	0.2%	0.5%	5.0%
Oregon	0.0%	47.6%	23.3%	0.0%	0.0%	29.1%
Arizona	1.5%	36.7%	52.0%	0.0%	1.9%	7.9%
Utah	0.5%	44.7%	36.3%	0.5%	2.0%	16.0%
Nevada	0.6%	41.4%	49.6%	0.0%	0.7%	7.7%
Nebraska	34.5%	17.0%	22.0%	1.1%	16.4%	9.1%
New Mexico	16.9%17.4%	38.1%		0.0%	0.0%	27.5%
Idaho	11.0% 0.0%	69.3%		0.0%	2.2%	17.5%
South Dakota	10.4%33.4%	13.1%		0.0%	2.6%	10.4%
North Dakota	3.0%44.0%	25.6%		0.0%	6.0%	21.4%
Montana	18.6%	35.9%	0.0%	0.0%	0.0%	45.5%
Wyoming	0.0%	70.0%	10.0%	0.0%	0.0%	20.0%
Subtotal UA	6.7%	42.3%	31.3%	0.4%	0.6%	18.6%
Grand Total	2 29.0%	3 %	20.0%	9.5%	7.8%	12.7%

Note: Excludes Non-Mainland Points: Hong Kong, Haw aii, Guam and other US Pacific Territories Box indicates gateway with highest passenger share.

Northwest Serves More of the U.S.-China Markets With its Nine Frequencies than United Does With its 14



Note: Exludes Non-Mainland Points: Hong Kong, Hawaii, Guam and Other U.S. Pacific Territories

Source: U.S. DOT, O&D Databases, YE 3Q 1998

Northwest's Existing Load Factor to China from DTW Is Better Than United's from SFO

Market	Carrier	Passengers	Seats	Load Factor
DTW-PEK	NW	20,373	25,916	78.6%
SFO-NRT - PEK/SHA	UA	58,588	81,602	71.8%

Source: US DOT T-700 Database, 2Q98

Northwest's Code Share With Air China at SFO and LAX Is Not a Substitute for Service from a Northwest Hub

Northwest has Limited Feed at SFO & LAX Compared to Detroit

Northwest Daily
Nonstop Service - May '99

	Nonstop Servic	e • way '99	
Gateway/Market	Departures	Seats	
<u> Bamancisco</u>			
Minneapolis	7	1,325	
Detroit	4	912	
Memphis	2	<u>300</u>	
Total	13	2,537	
<u>Los Angeles</u>			
Minneapolis	7	1,501	
Detroit	5	1,096	
Memphis	3	484	
Las Vegas	1	<u>150</u>	
Total	16	3,231	
Total SFO & LAX	29	5,768	
Total Detroit	530	56,739	

Source: OAG Schedule Tapes, May 7999

Daily Nonstop Service

Market	NW at DTW Depts. Seats	UA at SFO Depts. Seats	Difference Depts. Seats	% Difference Depts. Seats
Domestic Jet Commuter Total	340 44, 901 161 6,645 501 51, 546	228 34, 420 86 2,580 314 37, 000	112 10, 481 75 4,065 187 14, 546	49% 30% 87% 158% 60% 39%
International	29 5,193	14 3, 840	15 1, 353	107% 35% 62% 39%
Total	530 56, 739	328 40, 840	202 15, 899	62%

Source: OAG Schedule Tapes, May 1999

NW's Nonstop Daily Departures and Seats at DTW

Market	Nonstop Daily Depts.	Available Seats
Domestic Jet		
Minneapolis	14	2,425
Orlando	8	1,467
New York La Guardia	9	1,416
Washington National	10	1,380
Boston	8	1,362
Baltimore	8	1,292
Chicago O'Hare	9	1,284
Seattle/Tacoma	6	1,280
Los Angeles	6	1,246
New York Newark	8	1,196
Indianapolis	9	1,186
Milwaukee	7	1,096
Mernphis	8	1,086
Philadelphia	8	1,042
Atlanta	9	1,036
Grand Rapids	8	984
San Francisco	5	957
Nashville	8	844
Tampa	5	814
Las Vegas	4	736
Hartford	5	696
Miami	5	688
Chicago Midway Apt	6	646
St Louis	6	644
Phoenix	4	630
Lansing	5	614
Dallas/Fort Worth	6	600
Kansas City	5	594
Madison	5	566
Raleigh/Durham	5	566
Buffalo	5	544
Charlotte	5	522

NW's Nonstop Daily Departures and Seats at DTW

<u>Market</u>	Nonstop Daily Depts.	Available Seats
Washington Dulles	5	522
Norfolk	4	512
Syracuse	5	500
Columbus	5	500
Saginaw	5	500
Flint	4	492
Albany	4	466
Denver	3	450
Cleveland	4	446
Fort Lauderdale	3	438
Richmond	4	400
Greenville/Spartanburg, SC	4	400
Providence	4	400
Manchester	4	400
Fort Myers	2	368
New Orleans	3	366
Rochester	4	356
Jacksonville	3	344
Portland, OR	2	334
New York J F Kennedy	3	322
Allentown, PA	3	300
Houston Intercontinental	3	300
Westchester County	3	300
Reno	2	300
Louisville	3	300
Orange County	2	300
Traverse City	3	300
San Diego	2	300
Houston	3	300
Green Bay	3	278
Greensboro	3	256
West Palm Beach	2	250
Harrisburg	2	222
Birmingham	2	200
Kalamazoo	2	200
South Bend	2	200
Anchorage	1	184
Pittsburgh	2	178
Sarasota	1	100
Knoxville	1	100
Fort Wayne	1	<u>78</u>
Subtotal	340	44,901

NW's Nonstop Daily Departures and Seats at DTW

	Nonstop	Avai l abl e
Market	Daily Depts.	Seats
Domestic Commuter		
Ci nci nnati	7	375
Cl evel and	6	306
Pittsburgh	6	306
Kal amazoo	7	303
Fort Wayne	7	303
Dayton	6	270
Lexi ngton	4	240
Toledo Express Apt	7	231
Duluth	3	207
Sagi naw	4	204
South Bend	5	201
Flint	6	198
Columbus	3	171
Muskegon	5	165
Appleton	5	165
Erie	5	165
Des Moines	2	138
Westchester County	2	138
Green Bay	2	138
Evansville	4	132
Roanoke	4	132
Bloomington-Normal, IL	4	132
Rockford	4	132
Akron/Canton, OH	4	132
Lansing	4	132
Wausau	4	132
Traverse City	4	132
Champai gn Č	4	132
Louisville	2	102
Knoxville	2	102
Harri sburg	2	102
Allentown, PA	2	102
Marquette County Apt	3	99
Al pena	3	99
Charleston	3	99
Pellston	3	99
State College	3	99
El mi ra/Corni ng	2	66
Rochester	2	66
Bi nghamton	2	66
Youngstown		33
Benton Harbor	1	33
Buffalo	1	33
Lafayette	<u>1</u>	33
Subtotal	161	6, 645

NW's Nonstop Daily Departures and Seats at DTW

Market	Nonstop Daily Depts.	Available Seats
International <u>Jet</u>		
Amsterdam	2	820
Tokyo	2	807
Toronto	5	780
Montreal	4	466
Beijing	1	410
Osaka	1	410
Frankfurt	1	289
Paris	1	289
London	1	289
Mexico City	1	150
Vancouver	<u>1</u>	<u>150</u>
Subtotal	20	4,860
International Commuter		
London, Ontario	4	132
Ottawa	4	132
Montreal	<u>1</u>	<u>69</u>
Subtotal	<u>1</u> 9	333
'Total	530	56,739

Source: OAG Schedule Tapes, May 1999

UA's Nonstop Daily Departures and Seat at SFO

	Nonstop	Available
<u>Market</u>	Daily Depts.	Seats
Domostic lot		
Domestic Jet	37	4.426
Los Angeles Denver	37 14	4,436
	12	3,204
Chicago O'Hare	9	2,753
Washington Dulles	14	1,714 1,712
San Diego	15	·
Seattle/Tacoma		1,680
New York J F Kennedy	8 14	1,640
Burbank		1,612
Boston	8	1,576
Las Vegas	11 4	1,348
Honolulu		1,265
Orange County	7	1,252
New York Newark	7	1,200
Portland, OR	10	1,160
Phoenix	7	816
Ontario	6	728
Reno	5	600
Eugene	5	560
Kahului	2	486
Santa Barbara	4	452
Boise	4	432
Philadelphia	3	432
Salt Lake City	3	384
Monterey Peninsula, CA	2	376
Baltimore	2	376
Medford	3	344
Spokane	3	324
Kona	1	287
Miami	1	208
Orlando	1	188
Houston intercontinental	1	188
Dallas/Fort Worth	1	147
Atlanta	1	144
New Orleans	1	144
Austin	1	128
Hartford	<u>1</u>	<u>124</u>
Subtotal	228	34,420

UA's Nonstop Daily Departures and Seat at SFO

Market	Nonstop Daily Depts.	Available Seats
Domestic Commuter		
Sacramento	16	480
Fresno Air Terminal	16	480
Arcata/Eureka, CA	10	300
Redding	8	240
Chico	6	180
Monterey Peninsula, CA	6	180
San Luis Obispo	6	180
Bakersfield	5	150
Modesto	5	150
Redmond/Bend	3	90
Santa Rosa	2	60
Palm Springs	2	60
Crescent City	<u>1</u>	<u>30</u>
Subtotal	86	2,580
International Jet		
Tokyo	2	708
London	2	574
Hong Kong	1	391
Sydney	1	391
Chiang Kai Sheck	1	391
Osaka	1	391
Vancouver	2	291
Paris	1	287
Mexico City	1	144
Toronto	1	144
Calgary	<u>1</u>	<u>128</u>
Subtotal	<u>1</u> 14	3,840
Total	328	40,840

Source: OAG Schedule Tapes, May 1999

The Detroit Gateway Serves More Potential Behind Points than the San Francisco Gateway

These NW/DTW Cities Represent 9% More of the US-China O&D Market than UA/SFO Cities

Gateway	No. of Non-Circuitous Online Connecting Markets /1	O&D Passenger Index (SFO =1 00)
Det roiit	82	109
San Francisco	38	100

/1 Based on 20% or less circuity. Includes regional feeder markets

Note: Excludes Non-Mainland Points: Hong Kong, Haw aii, Guam and other US Pacific Territories

Source: OAG Schedule Tapes, May 7999 and US DOT, O&D Survey, YE 3Q 7998

The Detroit Gateway Serves More Potential Behind Points than the San Francisco Gateway

Northwest China via Detroit

US-China O&D	NW Nonstop	Nonstop	Nonstop Mileage via Detroit			Added	Mileage
Psgr Rank	Detroit Market /1	SHA Miles	DTW-SHA to	o DTW	Total	Miles	Circuity
1	New York	7, 368	7, 120	486	7, 606	238	3. 2%
2	Chi cago	7, 056	7, 120	236	7, 356	300	4.3%
3	Washington	7, 446	7, 120	394	7, 514	68	0.9%
4	Boston	7, 290	7, 120	621	7, 741	451	6. 2%
5	Houston	7, 589	7, 120	1, 103	8, 223	634	8.4%
6	Minneapolis	6, 745	7, 120	531	7, 651	906	13.4%
7	Dallas/Fort Worth	7, 345	7, 120	996	8, 116	771	10.5%
8	Atlanta	7, 649	7, 120	603	7, 723	74	1.0%
9	Phi l adel phi a	7, 409	7, 120	446	7, 566	157	2. 1%
10	Mi ami	8, 243	7, 120	1, 152	8, 272	29	0.4%
11	Orl ando	8, 043	7, 120	956	8, 076	33	0. 4%
12	Cl evel and	7, 202	7, 120	92	7, 212	10	0.1%
13	Pittsburgh	7, 291	7, 120	198	7, 318	27	0.4%
14	Baltimore	7, 434	7, 120	403	7, 523	89	1.2%
15	St. Louis	7, 187	7, 120	450	7, 570	383	5.3%
16	Cincinnati	7, 300	7, 120	238	7, 358	58	0.8%
17	Ral ei gh/Durham	7, 618	7, 120	502	7, 622	4	0. 1%
18	Indi anapol i s	7, 223	7, 120	241	7, 361	138	1.9%
19	Memphi s	7, 423	7, 120	619	7,739	316	4.3%
20	Kansas City	7, 054	7, 120	636	7, 756	702	10.0%
21	Columbus	7, 276	7, 120	161	7, 281	5	0. 1%
22	Hartford	7, 315	7, 120	541	7, 661	346	4.7%
23	Mi l waukee	6, 985	7, 120	243	7, 363	378	5.4%
24	New Orleans	7, 723	7, 120	936	8, 056	333	4.3%
25	Tampa	8, 053	7, 120	991	8, 111	58	0. 7%

The Detroit (Gateway Serves More Potential Behind Points than the San Francisco Gateway

Northwest China via Detroit

S-China O&D NW Nonstop		Nonstop	Milea	ge via Det	troit	Added	Mileage
Psgr Rank	Detroit Market /1	SHA Miles	DTW-SHA	to DTW	Total	Miles	Circuity
26	Rochester	7, 159	7, 120	285	7, 405	246	3. 4%
27	Charlotte	7, 634	7, 120	517	7, 637	3	0.0%
28	Buffalo	7, 155	7, 120	230	7, 350	195	2. 7%
29	Syracuse	7, 180	7, 120	362	7, 482	302	4. 2%
30	Nashville	7, 439	7, 120	466	7, 586	147	2.0%
31	Des Moines	6, 936	7, 120	540	7, 660	724	10. 4%
32	Ri chmond	7, 536	7, 120	454	7, 574	38	0. 5%
33	Madison	6, 944	7, 120	318	7, 438	494	7. 1%
34	Jacksonville	7, 910	7, 120	820	7, 940	30	0. 4%
35	Dayton	7, 255	7, 120	175	7, 295	40	0.6%
36	Fort Lauderdale/Hollywood	8, 229	7, 120	1, 135	8, 255	26	0.3%
37	Greensboro	7, 582	7, 120	462	7, 582	0	0.0%
38	Louisville	7, 332	7, 120	315	7, 435	103	1.4%
39	Harrisburg	7, 365	7, 120	364	7, 484	119	1.6%
40	Bi rmi ngham	7, 598	7, 120	634	7, 754	156	2.1%
41	West Palm Beach	8, 190	7, 120	1,093	8, 213	23	0.3%
42	Sagi naw	7, 025	7, 120	95	7, 215	190	2. 7%
43	Knoxville	7, 520	7, 120	450	7, 570	50	0. 7%
44	Greenville/Spartanburg	7, 616	7, 120	514	7, 634	18	0. 2%
45	Lansing	7, 063	7, 120	78	7, 198	135	1.9%
46	Norfol k	7, 593	7, 120	526	7, 646	53	0. 7%
47	Roanoke	7, 502	7, 120	384	7, 504	2	0.0%
48	Provi dence	7, 328	7, 120	603	7, 723	395	5.4%
49	Lexington	7, 366	7, 120	305	7, 425	59	0. 8%
50	Fort Myers	8, 157	7, 120	1,089	8, 209	52	0.6%
51	Allentown/Bethlehem	7, 354	7, 120	416	7, 536	182	2. 5%

The Detroit (Gateway Serves More Potential Behind Points than the San Francisco Gateway

Northwest China via Detroit

S-China O	&D NW Nonstop	NW Nonstop Nonstop Mileage			roit	Added	Mileage
Psgr Ran	k Detroit Market /1	SHA Miles	DTW-SHA t	o DTW	Total	Miles	Circuity
52	State College	7, 311	7, 120	294	7, 414	103	1. 4%
53	South Bend	7,097	7, 120	165	7, 285	188	2.6%
54	Kal amazoo	7,079	7, 120	121	7, 241	162	2.3%
55	Green Bay	6, 884	7, 120	289	7, 409	525	7. 6%
56	Erie	7, 188	7, 120	154	7, 274	86	1. 29
57	Appl eton	6,892	7, 120	294	7, 414	522	7.6%
58	Akron/Canton	7, 242	7, 120	132	7, 252	10	0. 19
59	Champai gn	7, 158	7, 120	308	7, 428	270	3.8%
60	El mi ra/Corni ng	7, 238	7, 120	325	7, 445	207	2.99
61	Flint	7, 068	7, 120	52	7, 172	104	1. 59
62	Manchester	7, 247	7, 120	598	7, 718	471	6. 5%
63	Lafayette	7, 165	7, 120	234	7, 354	189	2.69
64	Duluth	6, 650	7, 120	541	7, 661	11011	15. 29
65	Charleston	7, 404	7, 120	285	7, 405		0.0
66	Fort Wayne	7, 166	7, 120	138	7, 258	92	1. 3
67	Traverse City	6,920	7, 120	205	7, 325	405	5. 9
68	San Juan	8,968	7, 120	1,932	9, 052	84	0. 9
69	Westchester County	7, 348	7, 120	496	7, 616	268	3.6
70	Tol edo	7, 155	7, 120	59	7, 179	24	0. 3
71	Marquette	6, 768	7, 120	362	7, 482	714	10. 5
72	Youngstown	7, 234	7, 120	148	7, 268	34	0. 5
73	Evansville	7, 300	7, 120	374	7, 494	194	2.7
74	Wausau	6, 833	7, 120	366	7, 486	653	9. 6
75	Binghamton	7, 243	7, 120	368	7, 488	245	3. 4
76	Sarasota/Bradenton	8, 088	7, 120	1, 030	8, 150	62	0. 8
77	Rockford	7, 005	7, 120	302	7, 422	417	6. 0
78	Pellston	6, 882	7, 120	238	7, 358	476	6. 9
79	Bl oomi ngton-Normal	7, 115	7, 120	323	7, 443	328	4. 6
80	Grand Rapids	7,039	7, 120	124	7, 244	205	2. 9
81	Al bany	7, 234	7, 120	478	7, 598	364	5. 0
82	Muskegon	7, 006	7, 120	165	7, 285	279	4. 0

Note: Sorted in descending order by US-China O&D Passengers

Excludes Non-Mainland Points: Hong Kong, Haw aii, Guam and other US Pacific Territories

Source: OAG Schedule Tapes and US DOT, O&D Survey

^{/1} Based on 20% or less circuity. Includes regional feeder markets

The Detroit Gateway Serves More Potential Behind Points than the San Francisco Gateway

United China via San Francisco

US-China O&[O UA Nonstop	Nonstop	Mile	eage via Detro	oit	Added	Mileage
Psgr Rank	San Francisco Market /1	SHA Miles	SFO-SHA	to SFO	Total	Miles	Circuity
1	New York	7,368	6,152	2,564	8,716	1,348	18.3%
2	Los Angeles	6,485	6,152	336	6,488	3	0.0%
3	Chicago	7,056	6,152	1,848	8,000	944	13.4%
4	Washington	7,446	6,152	2,427	8, 579	1,133	15.2%
5	Houston	7,589	6,152	1,644	7, 796	207	2.7%
6	Seattle/Tacoma	5,720	6,152	679	6,831	1,111	19.4%
7	Dallas/Fort Worth	7,345	6,152	1,460	7,612	267	3.6%
8	Atlanta	7,649	6,152	2,132	8,284	635	8.3%
9	Philadelphia	7,409	6,152	2,513	8,665	1,256	17.0%
10	Denver	6,705	6,152	952	7,104	399	6.0%
11	Miami	8,243	6,152	2,579	8,731	488	5.9%
12	Orlando	8,043	6,152	2,434	8,586	543	6.8%
13	Baltimore	7,434	6,152	2,449	8,601	1,167	15.7%
14	Portland	5,791	6,152	550	6,702	911	15.7%
15	San Diego	6,594	6,152	446	6, 598	4	0.1%
16	Phoenix	6,773	6,152	648	6,800	27	0.4%
17	Austin	7,472	6,152	1,495	7,647	175	2.3%
18	Hartford	7,315	6,152	2,621	8,773	1,458	19.9%
19	New Orleans	7,723	6,152	1,906	8,058	335	4.3%
20	Salt Lake City	6,408	6,152	597	6, 749	341	5.3%
21	Sacramento	6,148	6,152	77	6, 229	81	1.3%
22	Boise	6,118	6,152	522	6,674	556	9.1%
23	Orange County	6,521	6,152	371	6,523	2	0.0%
24	Spokane	5,880	6,152	732	6,884	1,004	17.1%
25	Eugene	5,832	6,152	451	6,603	771	13.2%
26	Santa Barbara	6,402	6,152	261	6,413	11	0.2%
27	Reno	6,173	6,152	191	6,343	170	2.8%
28	Fresno	6,300	6,152	156	6,308	8	0.1%
29	Las Vegas	6,518	6,152	412	6,564	46	0.7%
30	San Luis Obispo	6,332	6,152	190	6,342	10	0.2%
31	0 ntario	6,515	6,152	363	6,515	0	0.0%
32	Medford	5,922	6,152	329	6,481	559	9.4%
33	Monterey	6,219	6,152	76	6,228	9	0.1%
34	Bakersfield	6,389	6,152	237	6, 389	0	0.1%
35		6,571	6,152	419	6, 3 69 6,571	0	0.0%
36	Palm Springs Modesto			76	6,228	19	0.0%
36 37		6,209	6,152			469	
	Arcata/Eureka	5,933	6,152	250	6,402		7.9%
38	Redmond	5,904	6,152	462	6,614	710	12.0%

/1 Based on 20% or less circuity. Includes regional feeder markets

Note: Sorted in descending order by US-China O&D Passengers

Excludes Non-Mainland Points: Hong Kong, I-law aii, Guam and other US Pacific Territories

Source: OAG Schedule Tapes and US DOT, O&D Survey

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84 of Northwest's 99 Domestic Nonstop Detroit Markets Would Be Better Served Over Detroit than San Francisco

Including the New York and Washington Airports, 2 of the Largest U.S.- China O&D Markets

Nonstop NW Market	Vi a DTW Percent Circuity	Miles Via DTW	Miles Via SFO	DTW Miles Advantage (Disadvantage)
Erie	1.4%	7, 286	8, 387	1, 101
El mi ra/Corni ng	3.0%	7, 458	8, 558	1, 100
Westchester County	3.8%	7, 628	8, 728	
New York La Guardia	3.5%	7, 623	8, 723	1, 100
New York Newark	3.3%	7,610	8, 709	1, 099
Hartford	4.9%	7, 672	8, 771	1, 099
Provi dence	5.6%	7, 736	8, 835	1, 099
New York J F Kennedy	3.4%	7, 631	8, 730	•
Bi nghamton	3.6%	7, 502	8, 600	1, 098
Allentown, PA	2.6%	7, 548	8, 645	1, 097
Boston	6.4%	7, 754	8, 848	1, 094
State College	1.5%	7, 424	8, 517	1, 093
Al bany	5.2%	7, 612	8, 703	1,091
Youngstown	0.6%	7, 277	8, 368	1,091
Harri sburg	1. 7%	7, 486	8, 576	1,090
Buffalo	2.9%	7, 364	8, 454	1, 090
Phi l adel phi a	2.3%	7, 576	8, 665	1, 089
Cl evel and	0. 2%	7, 219	8, 307	1, 088
Syracuse	4.4%	7, 496	8, 584	1, 088
Rochester	3.6%	7, 419	8, 506	1, 087
Manchester	6. 7%	7, 732	8, 819	1, 087
Akron/Canton, 0 H	0. 2%	7, 258	8, 332	1, 074
Pi ttsburgh	0. 5%	7, 325	8, 399	1, 074
Baltimore	1.3%	7, 532	8, 601	1, 069
Washington National	1.0%	7, 529	8, 587	1,058
Washington Dulles	0.9%	7, 507	8, 564	1, 057
Tol edo	0. 2%	7, 173	8, 205	1, 032
Flint	1.6%	7, 179	8, 202	1, 023
Ri chmond	0.6%	7, 580	8, 594	1, 014
Norfolk	0. 8%	7, 653	8, 664	1,011
Columbus	0. 1%	7, 280	8, 266	986
Lansi ng	1. 9%	7, 198	8, 159	961
Sagi naw	2.8%	7, 222	8, 183	961
Roanoke	0.1%	7, 507	8, 455	948
Charleston	0.0%	7, 405	8, 353	948
Ral ei gh/Durham	0. 1%	7, 625	8, 545	920
Dayton	0. 5%	7, 290	8, 197	907
Greensboro	0.0%	7, 584	8, 478	894

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	Via DTW			DTW Miles	
	Percent	Miles	Miles	Advantage	
Nonstop NW Market	Circuity	Via DTW	Via SFO	(Di sadvantage)	
Fort Wayne	1. 2%	7, 251	8, 138	887	
Al pena	5. 6%	7, 322	8, 208	886	
Kal amazoo	2. 2%	7, 237	8, 112	875	
Grand Rapids	2. 9%	7, 243	8, 112	869	
Cincinnati	0. 7%	7, 353	8, 182	829	
Charlotte	0. 0%	7, 637	8, 451	814	
South Bend	2. 6%	7, 280	8, 076	796	
Miskegon	4.0%	7, 284	8, 075	791	
Benton Harbor	3. 0%	7, 282	8, 067	785	
Pellston	7. 0%	7, 366	8, 148	782	
Lexi ngton	0. 7%	7, 420	8, 198	778	
Traverse City	5. 9%	7, 331	8, 108	777	
Greenville/Spartanburg, SC	0. 2%	7, 633	8, 379	746	
Indi anapol i s	1. 8%	7, 355	8, 090	735	
Louisville	1. 3%	7, 430	8, 136	706	
Lafayette	2. 6%	7, 348	8, 050	702	
Knoxville	0. 6%	7, 567	8, 266	699	
Chi cago Mi dway	4. 1%	7, 352	8, 001	649	
Chi cago O' Hare	4.4%	7, 358	7, 993		
Milwaukee	5. 4%	7, 361	7, 991	630	
Jacksonville	0. 3%	7, 938	8, 512	574	
Green Bay	7. 6 %	7, 411	7, 982		
Atlanta	0. 9%	7, 720	8, 285		
Champai gn	3. 7%	7, 422	7, 982		
Evansville	2. 6%	7, 488	8, 041	553	
Appleton	7. 6%	7, 415	7, 968		
Marquette County	10.6%	7, 487	8, 022		
Nashville	1.9%	7, 580	8, 114		
Rockford	5. 9%	7, 418	7, 931	513	
Orl ando	0. 4%	8, 075	8, 587		
Bloomington-Normal, IL	4. 5%	7, 437	7, 945		
West Palm Beach	0. 3%	8, 212	8, 712		
Madi son	7. 1%	7, 435	7, 917	482	
Fort L. auderdal e	0. 3%	8, 254	8, 730	476	
Mi ani	0. 3%	8, 271	8, 731	460	
Tampa	0. 7%	8, 109	8, 539	430	
Wausau	9.6%	7, 487	7, 908	421	
Fort Myers	0.6%	8, 204	8, 617	413	
Bi rmi ngham	2.0%	7, 749	8, 160	411	
Sarasota	0. 7%	8, 148	8, 556	408	

84 of Northwest's 99 Domestic Nonstop Detroit Markets Would Be Better Served Over Detroit than San Francisco

Including the New York and Washington Airports, 2 of the Largest U.S.- China O&D Markets

Nonstop NW Market	Via DTW Percent Circuity	Miles Via DTW	Miles Via SEO	DTW Miles Advantage (Di sadvantage)
Nonscop III Market	Ollowity	VI	VIA 01 0	(Disauvaneage)
			-	
St Louis	5.2%	7, 563	7, 882	319
Memphi s	4. 2%	7, 733	7, 954	221
Dul uth	15. 2%	7, 663	7, 809	146
Minneapolis	13.4%	7, 651	7, 737	86
Des Moines	10. 4%	7, 655	7, 697	42
New Orleans	4. 2%	8, 051	8, 058	7
Kansas City	9. 9%	7, 750	7, 653	(97)
Houston Intercontinental	8. 4%	8, 200	7, 783	(417)
Houston Hobby	8. 2%	8, 216	7, 797	(419)
Dallas/Fort Worth	10.4%	8, 109	7, 612	(497)
Denver	23. 1%	8, 256	7, 104	(1,152)
Anchorage	134. 4%	10, 100	8, 166	(1,934)
Phoeni x	29. 8%	8, 791	6, 801	(1,990)
Seattle/Tacoma	58. 1%	9, 045	6, 831	(2, 214)
Las Vegas	36.0 %	8, 868	6, 565	(2,303)
Portland, O R	56.6 %	9, 071	6, 702	(2,369)
San Diego	37. 6 %	9, 075	6, 598	(2,477)
Orange County	39. 2%	9, 079	6, 524	(2,555)
Reno	46. 1%	9, 021	6, 343	(2, 678)

Note: Markets are those with nonstop service to DTW on NW and its commuter affiliates Excludes major gateways (DTW, SFO, AND LAX)

Source: OAG Schedule Tapes

Detroit's New Midfield Terminal Will Be the Superior Facility for Both Connecting and Local U.S. - China Passengers

- The \$786 million terminal is 2,000,000 square feet.
- 74 jet gates.
- 25 commuter gates.99
 - An expandable remote boarding area for commuter and other domestic aircraft will connect to the main terminal via an underground moving walkway.
- Gates connected by both overhead trams and moving walkways for passenger convenience.
 - Overhead trams travel from one end of the concourse to the other in 2.5 minutes.
- 13,000 space parking deck.
- Connecting Link with Shopping Mall and WorldClub.
- Concession area is more than twice as large as the existing facility.
- By 2005, will be able to process 3,200 international passengers per hour.
- Scheduled to open 2001.
- Interim improvements of \$60 million have added 20,000 Square feet of space for processing departing international passengers.

Michigan Exports to China (PRC) by Industry 1998

Industrv	1998
Total All Industries	\$253,980,952
Industrial Machinery, Computer Equipment Transportation Equipment Electronic, Electric Equip, except Computers Instruments and rRelated Products Chemicals and Allied Products Furniture and Fixtures Primary Metal Industries Scrap and Waste Franbriacated Metal Products Stone, Clay and Glass Products Rubber and Misc. Plastics Products Food and Kindred Products Misc. Manufacturing Industries Paper and Alied Products Leather and Leather Products Charity, Military NIK Shipments < 10K NIK Printing and Publishing Special Classification Provisions, Not Specified Apparel and Other Textile Products Petroleum and Coal Products Ag ricu Itu ral Production - Livestock	\$253,980,952 \$118,643,578 \$49,221,790 \$28,602,433 \$17,391,012 \$9,579,132 \$8,073,068 \$5,102,116 \$4,203,538 \$3,952,050 \$2,808,843 \$2,079,479 \$713,597 \$703,889 \$493,472 \$485,514 \$363,534 \$337,894 \$313,254 \$243,163 \$218,698 \$212,481
Textile Mill Products Lumber and Wood Products Nonmetallic Minerals, Except Fuels	\$184,283 \$51,209 \$2,925
•	

Source: Adjustments to data from U.S. Census Bureau, Foreign Trade Division by MISER

Northwest's Proposed U.S. - China Services Will Provide a Significant Economic Benefit to the Detroit Region

Impact of Additional Visitors

Item	Current Y	ear 1	Year 2
Annual Frequencies, Each Direction1	468	728	832
Incremental Additional Frequencies vs. Current		260	364
Annual Seats, Both Directions1	371,696	606,164	690,664
Incremental Additional Seats vs. Current		234,468	318,968
Estimated Average Load Factor2		75%	75%
Total Pax on Board New Services (Excl. 5th Freedom Beyond NRT)		175,851	239,226
% of Passengers Travelling to or from Region3		30%	30%
Estimated Passengers Travelling to or from Region		52,755	71,768
% of Passengers Visiting Region from Overseas3		42%	42%
Estimated Visitors from Overseas Utilizing New Services		22,157	30,142
Estimated Stimulization (New Visitors to Region)		100%	100%
Net New Visitors to Region		22,157	30,142
Average Expenditure per Visitor3,4		\$1,397	\$1,425
Total Primary Visitor Expenditures in Region		\$30,960,513	\$42,960,865
Multiplier (for Visitor Expenditures)5			
Induced Expenditures		\$30,960,513	\$42,960,865
Total Visitor Impact on Region (Primary and Induced Expenditures)		\$61,921,027	\$85,921,731

Impact of Passenaer Revenues

Item	Current	Year 1	Year 2
Average Revenue per On-Board Passenger (Estimated)		\$1,100	\$1,100
Total Passenger Revenue		\$193,436,100	\$263,148,600
% of Revenue Generated in Region3		17%	17%
Total Passenger Revenue Generated in Region (Primary Im pact)		\$32,884,137	\$44,735,262
Multiplier5		1	1
Induced Expenditures		\$32,884,137	\$44,735,262
Total Impacton Region (Primaryand Induced Expenditures)		\$65,768,274	\$89,470,524

Impact of Cargo

Item	Current	Year 1	Year 2
Additional Belly Cargo Capacity, Each Way (lbs.)		8,320,000	11,648,000
Additional Freighter Capacity, Each Way (lbs.)1		22,880,000	45,760,000
Total Additional Freight Capacity, Each Way (lbs.)		31,200,000	57,408,000
Estimated Load Factor, Westbound Attributable to Region		35%	35%
Estimated Load f-actor, Eastbound Attributable to Region		35%	35%
Annual On Board Freight Traffic on New Services, Westbound (lbs.)		23,400,000	43,056,000
Annual On Board Freight Traffic on New Services, Eastbound (lbs.)		23,400,000	43,056,000
Estimated Revenue per Pound		\$1 .00	\$1 .00
Total Revenue Accrued		\$46,800,000	\$86,112,000
% of Revenue Accruing to Region		35%	35%
Total Revenue Accruing to Region (Primary Impact)		\$16,380,000	\$30,139,200
Multiplier5			
Induced Impact		\$16,380,000	\$30,139,200
Total Impact		\$32,760,000	\$60,278,400
Summary			

Impact of Additional Visitors	\$61,921,027	\$85,921,731
Impact of Passenger Revenues	\$65,768,274	\$89,470,524
Impact of Cargo	\$32,760,000	\$60,278,400
Total Regional Impact of New Passenger Services	\$160,449,301	\$235,670,655

Sources:

- 1/ Application of Northwest Airlines
- 2/ Estimated from Northwest 1998 Pacific results
- 3/ Economic Impact Study-Detroit Metropolitain Wayne County Airport
- 4/ Adjusted to 1999 and 2000 via CPI
- 5/ Implied Multiplier from Smith, Wilbur, The Economic Impact of Civil Aviation on the U.S. Economy

Single Flight Number Connecting Service Would be More Valuable to the New York Area Chinese Immigrants than to those in the Washington Area

Chinese Immigrants Living in the US by State

Washington Area		New York Area		
Maryland	9,206	New York	128,133	
Virginia	6,236	New Jersey	17,823	
DC	<u>1,313</u>	Connecticut	<u>3.653</u>	
Total	16,755	Total	149,609	

Source: Bureau of Census 1990 Population Survey

Single Flight Number Connecting Service Would be More Valuable to the New York Area Chinese-American Community than to that in the Washington, DC Area

Chinese-American Population

<u> Market</u>	Rank	Population
New York CMSA	2	320,201
Washington DC CMSA	7	39,034

CMSA: Consolidated Metropolitan Statistical Area

Source: Bureau of Census 7990 Population Survey as quoted at

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